

Our Reference: MPZ-100-A

## COMBINED DECLARATION AND POWER OF ATTORNEY

## DECLARATION:

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**HIGH PERFORMANCE FIBER REINFORCED THERMOPLASTIC RESIN,  
METHOD AND APPARATUS FOR MAKING THE SAME**

the specification of which (check only one item below):

☒ is attached hereto.

☐ was filed as United States application Serial No. \_\_\_\_\_ on \_\_\_\_\_, and was amended on or through \_\_\_\_\_ (if applicable).

☐ was filed as PCT international application Number \_\_\_\_\_ on \_\_\_\_\_, and was amended under PCT Article 19 on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate or §365(a) of any PCT international application(s) which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application(s) having a filing date before that of the application on which priority is claimed:

Prior Foreign/PCT Application(s) and any Priority Claims Under 35 U.S.C. §119:

Priority Claimed

(Number)	(Country)	(Day/Mo/Yr Filed)	<input type="checkbox"/>	<input type="checkbox"/>
			Yes	No
(Number)	(Country)	(Day/Mo/Yr Filed)	<input type="checkbox"/>	<input type="checkbox"/>
			Yes	No

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

(Application Number)	(Filing Date)
(Application Number)	(Filing Date)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or §365(c) of any PCT international application(s) designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

Prior U. S. Application(s) or PCT International Application(s) Designating the U.S. for Benefit Under 35 U.S.C. §120:

(Application Number)	(Filing Date)	(Status: patented, pending, abandoned)
(Application Number)	(Filing Date)	(Status: patented, pending, abandoned)

**POWER OF ATTORNEY:**

I hereby appoint the following attorney(s) and/or agent(s) Andrew R. Basile, Patent Office Registration No. 24753, William M. Hanlon, Jr., Patent Office Registration No. 28422, Thomas D. Helmholdt, Patent Office Registration No. 33181 and Denise M. Glassmeyer, Patent Office Registration No. 31831 as my attorney(s) and/or agent(s), to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith.

Send all correspondence to: Denise M. Glassmeyer  
Young & Basile, P.C.  
3001 West Big Beaver Road, Suite 624  
Troy, Michigan 48064  
Phone: (248) 649-3333

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Frank Grant

Inventor's Signature Frank Grant

Date 8/30/01 Citizenship USA

Residence 34424 Sandpebble Drive, Sterling Heights, Michigan 48310

Post Office Address (Same as above)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Frank Grant

Serial Number: 09/943,784

Filing Date: August 31, 2001

Examiner/Art Group Unit: Niland, Patrick Dennis/1714

Title: HIGH PERFORMANCE FIBER REINFORCED  
THERMOPLASTIC RESIN, METHOD AND  
APPARATUS FOR MAKING THE SAME

**DRAFT**

DECLARATION OF JAMES H. ZWENG

I, James Zweng, state the following:

1. I have reviewed above-identified Application and am qualified to make the following statements in this matter.
2. Based upon the facts set forth in this Declaration, I believe that I should be added as a co-inventor in this matter.
3. In the course of my employment with Mayco Plastics I was involved in the project relating to manufacture of high performance fiber-reinforced resin. To that end, I secured business from an end user relating to the manufacture of subcomponents using long glass fibers.
4. Prior to Mayco Plastics' involvement in this field, manufacturing methods using long glass fiber reinforcement had not yielded parts having appropriate tensile strength.

5. In order to address this problem, Dr. Frank Grant, a polymer chemist employed by Mayco Plastics, made several recommendations that resulted in increase in tensile strength.

6. After analysis and review, additional increases in tensile strength were still considered valuable and desirable.

7. To achieve material with greater tensile strength, I participated and directed activities that resulted in utilization of injection mold tools that permitted direct injection into the mold cavity. These actions resulted in slight increases in physical properties such as tensile strength. However, the material still evidenced a lack of good distribution of long unbroken fibers in the polymeric matrix.

8. The glass fibers used in manufacture were a commodity item that was received as long fiber bundles. I suggested that the glass fibers be preblended with polymers to separate and disperse the fibers in order to preserve fiber length. A vertical ribbon blender was employed for this process. The process initiated the fraying of the glass fiber bundles and even induced some separation. The result was a significant increase in tensile strength in the resulting molded material.

9. I was aware that an application for United States Patent had been filed on some aspect or aspects of the technology. However, it wasn't until I became aware of the Notice of Allowance from the United States and Trademark Office that this Application had been allowed that I raised the question of whether my contribution amounted to inventorship.

10. On or about April 9, 2004, I contacted Mr. Peterson Decker of Mayco Plastics with my concerns that I may be a co-inventor on the patent as allowed. This resulted in a phone conference between Mr. Decker, Ms. Denise Glassmeyer of the firm of Young & Basile, patent attorneys for Mayco Plastics, and me.

11. Based upon that conference and further review, I believe I am a co-inventor in the above-identified matter and seek to be so designated.

12. I, the person who is being added as an inventor by the petition being submitted to correct the inventorship of this patent, do hereby declare that the inventorship error in failing to include my name as an inventor on this patent occurred without any deceptive intention on my part.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**DRAFT**

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James H. Zweng

Dated: \_\_\_\_\_

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Frank Grant

Serial Number: 09/943,784

Filing Date: August 31, 2001

Examiner/Art Group Unit: Niland, Patrick Dennis/1714

Title: HIGH PERFORMANCE FIBER REINFORCED  
THERMOPLASTIC RESIN, METHOD AND  
APPARATUS FOR MAKING THE SAME

**DRAFT**

DECLARATION OF DR. FRANK GRANT

I, Frank Grant, state the following:

1. I am an inventor in the above-identified matter and am qualified to make the following statements in this matter.
2. On or about August 30, 2001, I executed a Declaration attesting to my inventorship in the Application which was filed on August 31, 2001 as Application Serial No. 09/943,784 (Appendix A). This Application was assigned to Mayco Plastics, 42400 Merrill, Sterling Heights, Michigan 48314, my employer (Appendix B).
3. Subsequent to that date, I left the employment of Mayco Plastics.
4. On or about April 13, 2004, I was contacted by representatives of Mayco Plastics. The above-identified application had been prosecuted and a Notice of Allowance had been received. I was informed that pre-issuance review of this Application indicated that Mr. James Zweng may have been inadvertently omitted as an inventor in this matter.
5. I was requested to review the documents and provide comment on this matter.

6. To the best of my recollection, the above-identified application was prepared during the month of August 2001. On or about August 30, 2001, I spent the day reviewing and revising the application with Denise M. Glassmeyer of Young & Basile, P.C. The application was filed the next day.

7. At the time it was my understanding that I was an inventor on this matter.

8. To the best of my recollection, during the time leading up to the preparation of the application I did work with Mr. James Zweng on this project. Mr. Zweng was involved with the issue of obtaining uniform distribution of unbroken fibers, particularly issues related to preblending fibers and polymers.

9. I reviewed the claims in this matter during the month of May 2004. After review of the claims as allowed, I concur that Mr. James Zweng should be added as co-inventor in this matter.

10. I declare that the inventorship error in failing to include James H. Zweng as an inventor on this patent occurred without any deceptive intention on my part.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**DRAFT**

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Frank Grant

Dated: \_\_\_\_\_

Our Reference: MPZ-100-A

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## DECLARATION:

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the specification of which (check only one item below):

☒ [X] is attached hereto.

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(Number)	(Country)	(Day/Mo/Yr Filed)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
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(Application Number)	(Filing Date)	(Status: patented, pending, abandoned)
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I hereby appoint the following attorney(s) and/or agent(s) Andrew R. Basile, Patent Office Registration No. 24753, William M. Hanlon, Jr., Patent Office Registration No. 28422, Thomas D. Helmholdt, Patent Office Registration No. 33181 and Denise M. Glassmeyer, Patent Office Registration No. 31831 as my attorney(s) and/or agent(s), to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith.

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Young & Basile, P.C.  
3001 West Big Beaver Road, Suite 624  
Troy, Michigan 48064  
Phone: (248) 649-3333

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Full name of sole or first inventor Frank Grant

Inventor's Signature Frank Grant

Date 8/30/01 Citizenship USA

Residence 34424 Sandpebble Drive, Sterling Heights, Michigan 48310

Post Office Address (Same as above)

Our Reference: MPZ-100-A

ASSIGNMENT

PATENT

WHEREAS, I, Frank Grant, a citizen of Michigan residing at 34424 Sandpebble Drive, Sterling Heights, Michigan 48310, have invented a/a High Performance Fiber Reinforced Thermoplastic Resin, Method and Apparatus for Making the Same; and

WHEREAS, Mayco Plastics, a corporation of the State of Michigan, having its principal place of business at 42400 Merrill, Sterling Heights, Michigan 48314, desires to acquire the entire right, title, and interest in and to said invention;


NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations, receipt whereof is hereby acknowledged, I, by these presents do sell, assign and transfer unto said corporation, its successors and assigns, all right, title, and interest in the United States of America and all foreign countries in and to said invention as described in the Provisional Patent Application No. \_\_\_\_\_ filed on \_\_\_\_\_ for which I have made application for Letters Patent of the United States of America; and the present patent application executed by me on the \_\_\_\_\_ day of \_\_\_\_\_, 2001 (and I hereby authorize my attorneys, authorized to prosecute said application, to here insert the filing date and serial number of said application, as soon as it is known, Serial No. \_\_\_\_\_, filed \_\_\_\_\_), and to any improvements on said invention hereto or hereafter made while I am in the employ of said corporation, and any divisions or continuations of said application, and all Patents, United States and foreign, granted upon any such applications or for the inventions described therein, and any reexaminations, reissues or extensions of said Patents; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all Patents on said United States applications to said corporation as assignee thereof.

FOR SAID CONSIDERATIONS I hereby covenant and agree that I am the owner of the full title herein assigned and have the right to assign the same, and agree that I will communicate to said corporation or its representatives, any facts known to me respecting said invention or inventions and testify in any legal proceedings relating thereto when called upon, and will sign all instruments and documents and render such assistance which in the judgment of said corporation is necessary to vest in it and protect the legal title sought to be assigned.

I authorize and empower the assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for the inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with the assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any incumbrance, and that I have full right to convey the same as herein expressed.

  
Frank Grant

Signed this 30th day of August, 2001.

**After recordation return this assignment to:**

**Denise M. Glassmeyer  
YOUNG & BASILE, P.C.  
3001 West Big Beaver, Suite 624  
Troy, Michigan 48084-3107**